COMPETITIVE REWARDS BENCHMARKING SYSTEM AND METHOD

The present invention relates to the field of computer database systems and in particular relates to a competitive rewards benchmarking system and method.

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Many business entities find it necessary to obtain, analyze and interpret worker rewards market data to better recruit and retain workers or "talent". Often, market pressures require business organizations to identify and retain the best qualified talent available, and ensure they are properly recognized and rewarded. However, several difficulties arise in carrying out this task.

Some business entities benchmark worker rewards against various competitors in such areas as: salary ranges, salary increases, paid/unpaid leave, retirement programs; medical, dental, vision care, insurance programs, alternate work schedules and the like. Effective benchmarking requires relatively large amounts of up to date and accurate data. For example, competitive rewards data is preferably gathered from multiple business organizations via surveys and the like for incorporation into a database. In general, surveys are quite labor intensive to administer and can include data gathered and compiled on a local, national or global basis.

Competitive rewards data can be compiled in-house or can be obtained from a variety of sources (out-sourced). A typical competitive rewards database contains: base salary information, incentives and total cash compensation as well as other factors such as use of overtime, stock plans and cash awards (like performance bonuses and profit sharing). Reports generated from such data can contain global or national salary information as well as breakouts based on numerous criteria, including sales revenue, geographic region, industry type, company size and the like.

Often, access to out-sourced data requires a business entity to pay a fee and also commit at least a portion of its resources to compile and submit its data regarding its workers. The preparation and submission of this information is also quite labor intensive. However, out-sourcing is advantageous in that the actual compilation, maintenance and administration of the database are handled by a third party.

The consistency and accuracy of the compiled data can be affected by various factors. For example, various worker roles may not be defined consistently between business organizations. The geographic location of various businesses may affect the magnitude and form of worker compensation packages. Country specific rewards and

translating across currencies and cultures can add further inconsistencies in the data. Survey inconsistencies may also affect the accuracy of the gathered data.

What is needed in the art and provided by the invention are improved systems and methods for providing current competitive rewards data.

Summary of the Invention

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The invention concerns a system and method for implementing and/or administering a competitive rewards database. Member data is received from at least one member computer via a data feed. The (raw) member data is automatically mapped and incorporated into the competitive rewards database.

In a preferred embodiment, the competitive rewards database contains at least one of base pay data, long term incentive pay data and annual incentive pay data. Other data elements can include any human resource management system data element, incentive data, perquisite data and/or benefit plan provision data. The competitive rewards database can also contain at least one calculated data value.

A preferred aspect of the invention is direct to a data capture tool operable to adjust the mapping of member data. Preferably, the data capture tool is coupled to a data network and is operable to provide remote access to at least a portion of the competitive rewards database.

Another aspect of the invention is directed to a rewards workbench operable to query the competitive rewards database. Preferably, the rewards workbench is coupled to a data network and is operable to provide remote access to at least a portion of the competitive rewards database (e.g., compiled statistics summarizing the data received from multiple members). In a preferred embodiment, the rewards workbench is operable to automate data feeds to at least one third party human resources management system.

The invention is also directed to a competitive rewards database system. The system has a competitive rewards database subsystem having a competitive rewards database and a data communications channel. The system has mapping data for automatically mapping member data prior to incorporation into the competitive rewards database. The system also includes at least one member computer system having a data feed coupled to the data communications channel.

In a preferred embodiment the system also has a data capture tool operable to adjust the mapping of member data. Preferably, the data capture tool is coupled to a data network and is operable to provide remote access to at least a portion of the competitive rewards database.

Another preferred aspect of the system provides a rewards workbench operable to query the competitive rewards database. Preferably, the rewards workbench is coupled to a data network and is operable to provide remote access to at least a portion of the

competitive rewards database. The rewards workbench can optionally be operable to automate data feeds to at least one third party human resources management system.

Brief Description of the Drawings

Figure 1 is a general block diagram showing the basic components of computer system in accordance with the invention;

Figure 2 is a block diagram showing the basic components of the competitive rewards database subsystem in accordance with the invention;

Figure 3 is flow chart illustrates operation of a computer system with respect to member data feeds in accordance with the invention; and

Figure 4 is an exemplary data mapping table in accordance with the invention.

10 Detailed Description of the Invention

Definitions

The following terms shall have, for the purposes of this application, the respective meanings set forth below.

- Database: means a collection of information stored for later retrieval. Traditional
 databases are organized by fields, records, and files. A field is a single piece of information; a record is one complete set of fields; and a file is a collection of records.
 The term "database" is used herein in its broadest sense (i.e., a collection of information) and is not limited to any particular structure or implementation.
- Data network: means a group of two or more computer systems linked together in data communication. The term "data network" encompasses any type of wired or wireless computer network, independent of protocol, including local-area networks (LANs), wide-area networks (WANs) and networks of networks including the an intranet, extranet and the Internet.
- HTML: is an acronym for Hyper-Text Markup Language, the authoring language used
 to create documents on the World Wide Web. HTML defines the structure and layout of
 a Web document by using a variety of tags and attributes.
 - Link: means an HTML element that provides a Hyper-Text link. For example an HTML element supporting the HREF attribute which specifies a Hyper-Text link to another resource, such as an HTML document, image or the like.
 - Server: means a program running on a computer that provides some service to other (e.g., client) programs.

The invention concerns a competitive rewards database system and method of administration. The system is operable to receive member data from at least one member computer via a data feed and automatically map the member data prior to incorporation into the competitive rewards database. The system is preferably coupled to a plurality of member human resources management systems (i.e., computer systems) and receives automatic data feeds of raw member data on a regular basis.

The term "member computer system" as used herein refers to a member's human resources management systems (HRMS). A typical member HRMS is implemented with a proprietary software package and one or more computer. The implementation, configuration, maintenance and operation of a computer based HRMS is well known to those skilled in the art.

Figure 1 shows a block diagram of a computer system in accordance with the invention. The computer system has a competitive rewards database subsystem 10 (associated with at least one computer) operable store data such as base pay data, long term incentive pay data and annual incentive pay data. Other data elements can include any human resource management system data element, incentive data, perquisite data and/or benefit plan provision data and the like. Mapping data 20 provides a mechanism for automatically mapping raw member data prior to incorporation into the competitive rewards database as discussed in more detail below. Mapping data 20 is generally coupled to the competitive rewards database subsystem 10 as shown generally by arrow 22 (e.g., via Lan, Wan, intranet, extranet or the like).

The competitive rewards database subsystem 10 is preferably coupled to at least one member computer system. See blocks 30, 32, 34 and 36. Data communication (e.g., data feeds) between member computer systems 30, 32, 34 and 36 and the competitive rewards database subsystem 10 are shown generally by arrows 40. Data communications in association with database reporting functions are shown generally by arrows 70. Data communications in association with data capture tool 52 is shown generally by arrow 52. Data communications between various portions of the system are preferably carried out via a data network such as the Internet. It is understood that other data network configurations are compatible with the invention (e.g., Lan, Wan, intranet, extranet or the like). It is also understood that enhanced security can be provided via firewalls, secure servers and the like.

In the case of the Internet, data communications often traverse a series of intermediate network nodes prior to reaching the desired destination. Arrows 40, 52 and 70 do not suggest a direct physical connection between the member computer systems and the competitive rewards database subsystem and encompass typical Internet communications (a connectionless, best-efforts packet-based system).

It is understood that other components may be required to fully implement communications between the member computer systems 30, 32, 34 and 36 and the competitive rewards database subsystem such as firewalls, routers, policy servers, Web servers, application servers, enterprise management systems, data communications channels (e.g. communications equipment, leased data lines and the like), switches, encryption products and/or gateways and the like. Configuration of the required hardware and software to implement data communication in accordance with the invention is well known to those skilled in the art.

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A data capture tool 50 is coupled to the competitive rewards database subsystem. The data capture tool is preferably an Internet World Wide Web based "smart" tool to capture HR and Line Manager input on benchmark global job matches. Preferably, the data capture tool is populated with appropriate employee data (based on data in the competitive rewards database) according to reporting relationships. Line Managers can then advantageously review data for each employee they supervise.

A rewards workbench is 60 is coupled to the competitive rewards database subsystem. The rewards workbench is an analytic tool to access to data contained in the competitive rewards database subsystem. The rewards workbench is preferably operable to query the competitive rewards database and provide various reports relevant to competitive rewards analysis, total compensation planning, data mining and performance based analysis.

The data capture tool 50 and rewards workbench 60 are preferably implemented via with one or more HTML servers hosting an Internet Web site. There are many varieties of commercially or publicly available World Wide Web server software packages which are compatible with the invention (e.g., Apache, IBM WebSphere products, NETSCAPE Enterprise, Microsoft Windows IIS Server and the like) all of which can be implemented with commonly available hardware from vendors such as IBM, Hewlett Packard, Compaq, Dell, Sun and numerous others that are known to those skilled in the art.

Members wishing to access the data capture tool 50 or rewards workbench 60 will typically use a network processing device (not shown) coupled to the external data network (e.g., the Internet). Two or more network devices (e.g., a network processing device and competitive rewards database subsystem 10) as disclosed herein are "coupled" so long as data communication between the devices is possible (e.g., hard wired data communication, wireless data communications and the like). Typical network processing devices include, but are not limited to, personal computers (portable or desktop), personal digital assistants (PDA), Browser phones, 2-way pagers or the like. Network processing devices also include browser software or the like for providing a user interface and enabling communication with the external data network (e.g., Microsoft Internet Explorer, Netsacape Communicator, mini-browsers or the like).

In the context of the Internet, the network processing device and the competitive rewards database subsystem 10 communicate via TCP/IP protocol (Transmission Control Protocol over Internet Protocol). Each is network addressable in that it has a specific IP address (e.g., a 32-bit address defined by the Internet Protocol usually represented in dotted decimal notation) which is used to route data between the devices. It is also understood that other data networks using various network protocols are suitable for use in accordance with the invention.

Figure 2 shows a block diagram of the competitive rewards database subsystem 10. Competitive rewards database 12 is generally operable to store data acquired from the member systems. However, raw data from the member computer systems must be mapped, in accordance with mapping data 20, prior to incorporation into the competitive rewards database 12 as discussed in more detail below. Computer(s)/server(s) 14 are generally operable to communication with the member computer systems via communications hardware/software 16. The interconnection of computers, servers, communication equipment and the like in accordance with the invention is well within the grasp of those skilled in the art. For example, the competitive rewards database subsystem 10 can be implemented via a Lan, Wan, intranet, extranet or the like.

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Figure 3 generally illustrates operation of a computer system with respect to member data feeds in accordance with the invention. Preferably, each of the member computer systems 30, 32, 34 and 36 are configured to automatically transfer raw data on a somewhat regular or periodic basis (e.g., daily, weekly, monthly...). In the alternative, the competitive rewards database system 10 can be configured to poll each of the

member computer systems. Raw data can be transferred via any communication protocol, including but not limited to HTTP, FTP, GOPHER, NEWS, NNTP, MAILTO and the like.

The invention contemplates integration with a plurality of proprietary HRMS. Each member computer system may have a different raw data format. Preferably, each member has associated data map stored in the competitive rewards database subsystem. See Figures 1 and 2, block 20. The data map generally correlates each data element in the raw data with corresponding locations in competitive rewards database. Some of the raw data may be directly copied into the competitive rewards database. Other portions of the raw data may be translated, scaled, re-formatted, re-calculated and/or adjusted as necessary for compatibility with the format of the competitive rewards database. Once the raw data is mapped, it is stored in the competitive rewards database.

Figure 4 shows an exemplary portion of a data mapping table (incorporated into mapping data 20). It is generally understood that raw member data from a member's HRMS will contain a plurality of records. Figure 4 shows the data mapping for an excerpt of a HRMS database record including information related to a single employee. In a preferred embodiment, all of the raw data is mapped to a corresponding field in the competitive rewards database. In an alternate embodiment, some of the raw data can be omitted from the competitive rewards database (e.g., employee name, social security number and the like).

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Some portions of the raw data are simply mapped into appropriate locations in the competitive rewards database. As stated above some of the raw data may be translated, scaled, re-formatted, re-calculated and/or adjusted as necessary for compatibility with the format of the competitive rewards database. For example, some HRMS may specify a given employee position by a text string (e.g., ASCII code). The competitive rewards database may be advantageously implemented with a plurality of numeric codes (i.e., job codes). Translation of text strings to numeric codes as well as general implementation of a data mapping table in accordance with the invention based on the foregoing disclosure is well within the scope of those skilled in the art.

In operation, each of the member computer systems transmits raw data to the competitive rewards database system. The raw data is mapped and re-formatted as necessary and is incorporated into the competitive rewards database. Data capture tool 50 can then be used by members (e.g., HR Managers, Line Managers) to view portions

of the competitive rewards database populated with appropriate employee data according to reporting relationships. The Manager can then review data for each employee they supervise. Preferably, menu-driven options are provided thereby enabling the Manager to "tag" employees — by function, discipline, level, and scope — and flag high-performers. Preferably, on-line help is available to guide managers through the matching process. In a preferred aspect of the invention, HR and Line Managers can review and update the mapping and competitive rewards database information as part of on-going HR processes.

Thus, the invention advantageously provides an up-to-date mapping of employees to benchmarks established by all members of the competitive rewards database system (e.g., function, discipline, level). This promotes Manager acceptance of market data and ensures robust, high-quality data.

Rewards workbench 60 provides members with a comprehensive analytic tool operable to access data contained in the competitive rewards database subsystem. The rewards workbench is preferably operable to: query prevalence of reward practices and plan provisions, compare member reward values to specific comparator groups, develop market reference data from the competitive rewards database, model and develop base pay structure, analyze cost implications, conduct data mining analyses on member's own data, and generate other custom real-time analyses on the competitive rewards database. The generation of various reports and analysis based on competitive rewards database information is well within the scope of those skilled in the art.

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In a preferred embodiment, the rewards workbench provides for the formatting and export of formatted member data for submission to surveys. This information can be automatically transmitted to a third party HRMS. See Figure 1, reference number 80.

Rewards workbench 60, advantageously provides direct access to a robust data source to conduct a wide range of sophisticated analyses. This improves efficiency of survey submission process by leveraging initial benchmark matching and validation efforts (using the data capture tool). Rewards workbench 60 also allows electronic feed of competitive rewards data to other specialized human resources systems.

It is understood that some of the data contained in the competitive rewards database is not available to all users. For example, each member preferably can access all of data contained in the competitive rewards database derived from their raw data. Each member can also access a subset of the data contained in the competitive rewards

database derived from other member raw data (e.g., compiled statistics summarizing the data received from multiple members). However, individual employee names, social security numbers, personal data, billing information are not made available to other members. In general, access to member data is restricted as needed for compliance with international, federal, state and local regulations (e.g., the timing of release of new data, the level of detail of the data released, and the release of data with respect to various geographic regions).

While this invention has been described with an emphasis upon preferred embodiments, it will be obvious to those of ordinary skill in the art that variations in the preferred devices and methods may be used and that it is intended that the invention may be practiced otherwise than as specifically described herein. Accordingly, this invention includes all modifications encompassed within the spirit and scope of the invention as defined by the claims that follow.